CONTENTS

AMORPHOUS SILICON ALLOYS FOR SOLAR CELLS, K. W. Mitchell and	
K. J. Touryan	1
THE THREE MILE ISLAND UNIT 2 CORE: A POST-MORTEM EXAMINATION, R. S. Denning	35
THE ORIGIN OF NATURAL GAS AND PETROLEUM, AND THE PROGNOSIS FOR FUTURE SUPPLIES, Thomas Gold	53
International Cooperation in Magnetic Fusion, W. M. Stacey, Jr. and M. Roberts	79
ENERGY USE IN CITIES OF THE DEVELOPING COUNTRIES, Jayant Sathaye and Stephen Meyers	109
ETHANOL FUEL FROM SUGAR CANE IN BRAZIL, Howard S. Geller.	135
INDUSTRIAL FUEL USE: STRUCTURE AND TRENDS, Richard Thoreson, Richard E. Rowberg, and James F. Ryan	165
Measured Performance of Passive Solar Buildings, $Joel\ N$. Swisher	201
INCENTIVES AND CONSTRAINTS ON EXPLORATORY DRILLING FOR PETROLEUM IN DEVELOPING COUNTRIES, Harry G. Broadman	217
DECOMMISSIONING OF COMMERCIAL NUCLEAR POWER PLANTS, J. T. A. Roberts, R. Shaw, and K. Stahlkopf	251
A REVIEW OF THE RESIDENTIAL CONSERVATION SERVICE PROGRAM, James A. Walker, Theador N. Rauh, and Karen Griffin	285
OIL PRICES AND INFLATION, H. G. Huntington	317
EXPLAINING RESIDENTIAL ENERGY USE BY INTERNATIONAL BOTTOM- UP COMPARISONS, Lee Schipper, Andrea Ketoff, and Adam	
Kahane	341
FUELWOOD AND CHARCOAL USE IN DEVELOPING COUNTRIES, Timothy S. Wood and Sam Baldwin	407
INHERENTLY SAFE REACTORS, Irving Spiewak and Alvin M. Weinberg	431
NATURAL GAS SUPPLY AND DEMAND PLANNING IN THE ASIA-	
PACIFIC REGION, Fereidun Fesharaki and Wendy Schultz	463
	vii

viii CONTENTS (continued)

MILITARY SABOTAGE OF NUCLEAR FACILITIES: THE IMPLICATIONS, Bennett Rambera 495 Managing the Strategic Petroleum Reserve: Energy Policy IN A MARKET SETTING, R. Glenn Hubbard and Robert J. Weiner 515 A DECADE OF UNITED STATES ENERGY POLICY, Mark D. Levine and Paul P. Craig 557 INTERNATIONAL ENERGY RESEARCH AND DEVELOPMENT COOPERATION, John E. Gray, Edward F. Wonder, and Myron B. Kratzer 589 AN END-USE ORIENTED GLOBAL ENERGY STRATEGY, Jose Goldemberg, Thomas B. Johansson, Amulya K. N. Reddy, and Robert H. Williams 613 INDEXES 689 Subject Index Cumulative Index of Contributing Authors, Volumes 1-10 705

707

Cumulative Index of Chapter Titles, Volumes 1-10

ANNUAL REVIEWS INC. is a nonprofit scientific publisher established to promote the advancement of the sciences. Beginning in 1932 with the Annual Review of Biochemistry, the Company has pursued as its principal function the publication of high quality, reasonably priced Annual Review volumes. The volumes are organized by Editors and Editorial Committees who invite qualified authors to contribute critical articles reviewing significant developments within each major discipline. The Editor-in-Chief invites those interested in serving as future Editorial Committee members to communicate directly with him. Annual Reviews Inc. is administered by a Board of Directors, whose members serve without compensation.

1985 Board of Directors, Annual Reviews Inc.

Dr. J. Murray Luck, Founder and Director Emeritus of Annual Reviews Inc. Professor Emeritus of Chemistry, Stanford University

Dr. Joshua Lederberg, President of Annual Reviews Inc. President, The Rockefeller University

Dr. James E. Howell, Vice President of Annual Reviews Inc. Professor of Economics, Stanford University

Dr. William O. Baker, Retired Chairman of the Board, Bell Laboratories

Dr. Winslow R. Briggs, Director, Carnegie Institution of Washington, Stanford

Dr. Sidney D. Drell, Deputy Director, Stanford Linear Accelerator Center

Dr. Eugene Garfield, President, Institute for Scientific Information

Dr. Conyers Herring, Professor of Applied Physics, Stanford University

Mr. William Kaufmann, President, William Kaufmann, Inc.

Dr. D. E. Koshland, Jr., Professor of Biochemistry, University of California, Berkeley

Dr. Gardner Lindzey, Director, Center for Advanced Study in the Behavioral Sciences, Stanford

Dr. William D. McElroy, Professor of Biology, University of California, San Diego

Dr. William F. Miller, President, SRI International

Dr. Esmond E. Snell, Professor of Microbiology and Chemistry, University of Texas, Austin

Dr. Harriet A. Zuckerman, Professor of Sociology, Columbia University

Management of Annual Reviews Inc.

John S. McNeil, Publisher and Secretary-Treasurer

William Kaufmann, Editor-in-Chief

Mickey G. Hamilton, Promotion Manager

Donald S. Svedeman, Business Manager

Richard L. Burke, Production Manager

ANNUAL REVIEWS OF

Anthropology **Astronomy and Astrophysics** Biochemistry Biophysics and Biophysical Chemistry

Cell Biology Earth and Planetary Sciences **Ecology and Systematics**

Energy Entomology Fluid Mechanics Genetics Immunology **Materials Science** Medicine Microbiology Neuroscience

Nuclear and Particle Science Nutrition Pharmacology and Toxicology

Physical Chemistry Physiology Phytopathology Plant Physiology Psychology Public Health

SPECIAL PUBLICATIONS

Annual Reviews Reprints: Cell Membranes, 1975-1977 Cell Membranes, 1978-1980 Immunology, 1977-1979

Excitement and Fascination of Science, Vols. 1 and 2

History of Entomology

Intelligence and Affectivity, by Jean Piaget

Telescopes for the 1980s

Sociology A detachable order form/envelope is bound into the back of this volume.



